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(54) Title: BLOCK COPOLYMER MICELLE COMPOSITION HAVING AN ENHANCED DRUG-LOADING CAPACITY AND SUSTAINED RELEASE

(57) Abstract: The present invention relates to a micelle drug composition having an enhanced drug-loading capacity and improved sustained-release characteristics. The composition comprises an amphiphilic block copolymer wherein at least one hydrophilic blocks and at least one hydrophobic blocks form shell and core, respectively, said hydrophobic block comprises 1.1 to 30 functional groups selected from the group consisting of carboxyl, amine, hydroxyl, amide, thiol and sulfonic acid groups, in a hydrophobic block chain of the copolymer.

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